SUMMARY OF THE 2006 CDC SEXUALLY TRANSMITTED DISEASES (STD) TREATMENT GUIDELINES STD CONTROL PROGRAM – RHODE ISLAND DEPARTMENT OF HEALTH

These guidelines for the treatment of STDs reflect the recommendations of the 2006 CDC STD Treatment Guidelines. These are outlines for quick reference that focus on STDs encountered in an outpatient setting and are not an exhaustive list of effective treatments. Please refer to the complete document of the CDC for more information or call the STD Program. These guidelines are to be used for clinical guidance and are not to be construed as standards or inflexible rules. Clinical and epidemiological services are available through the STD Program and staff is also available to assist healthcare providers with confidential notification of sexual partners of patients infected with STDs and/or HIV. Please call for any assistance. PHONE: (401) 222-2577. FAX: (401) 222-

1105. STD CONTROL PROGRAM, RHODE ISLAND DEPARTMENT OF HEALTH, 3 CAPITOL HILL, ROOM 106, PROVIDENCE, RI 02908. RECOMMENDED TREATMENT ALTERNATIVES DISEASE SYPHILIS (see 2006 CDC guidelines for follow-up recommendations and management of congenital syphilis) PRIMARY, SECONDARY OR EARLY LATENT (For penicillin allergic non-pregnant adult patients) (< 1 YEAR)Doxycycline 100 mg orally 2 times a day for 14 days OR Ceftriaxone 1 g daily IV or IM for 8-10 days OR Azithromycin · Benzathine penicillin G 2.4 million units IM in a single dose Adults 2 g orally once1 Children • Benzathine penicillin G 50,000 units/kg IM, up to the adult dose of 2.4 million units, in a single dose LATE LATENT (> 1 YEAR) OR LATENT OF UNKNOWN DURATION • Benzathine penicillin G 2.4 million units IM for 3 doses, 1 week Doxycycline 100 mg orally 2 times a day for 28 days for Adults apart (total 7.2 million units) adults only Children • Benzathine penicillin G 50,000 units/kg IM up to the adult dose of 2.4 million units, administered as three doses at 1 week intervals (total 150,000 units up to the adult total dose of 7.2 million units) NEUROSYPHILIS Aqueous crystalline penicillin G 18 - 24 million units per day, • Procaine penicillin 2.4 million units IM once daily plus administered as 3-4 million units IV every 4 hours or continuous probenecid 500 mg orally 4 times a day, both for 10-14 days infusion, for 10-14 days HIV INFECTION • For primary, 2nd and early latent syphilis: Treat as above. Some specialists recommend three doses. • For late latent syphilis or latent syphilis of unknown duration: Perform CSF examination before treatment PREGNANCY Penicillin is the only recommended treatment for syphilis during pregnancy. Women who are allergic should be desensitized and then treated with penicillin. Dosages are the same as in non-pregnant patients for each stage of syphilis. GONOCOCCAL INFECTIONS: Treat also for chlamydial infection if not ruled out by a sensitive test (nucleic acid amplification test) Update to CDC's STD Treatment Guidelines, 2006: Fluroquinolones No Longer Recommended for Treatment Of Gonococcal Infections (MMWR 4/13/2007 / 56(14);332-336 ADULTS CERVIX, URETHRA, RECTUM • Ceftriaxone 125 mg IM in a single dose OR • Spectinomycin⁵ 2 g IM in a single dose <u>OR</u> · Cefixime 400 mg orally in a single dose · Single-dose cephalosporin regimens See 2006 CDC guidelines for discussion of alternative regimens PHARYNX · Ceftriaxone 125 mg IM in a single dose Ceftriaxone 1 g IM in a single dose plus lavage the infected eye CONJUNCTIVA with saline solution once NEONATES • Ceftriaxone 25-50 mg/kg IV or IM once (not to exceed125 mg) OPHTHALMIA NEONATORUM⁷ INFANTS BORN TO INFECTED MOTHERS CHILDREN (≤45KG) · Ceftriaxone 125 mg IM in a single dose • Spectinomycin⁵ 40 mg/kg IM in a single dose (maximum 2 g) VAGINA, CERVIX, URETHRA, PHARYNX, RECTUM PREGNANCY · Ceftriaxone 125 mg IM in a single dose OR• Spectinomycin⁵ 2 g IM in a single dose • Cefixime 400 mg orally in a single dose CHLAMYDIAL INFECTIONS ADULT • Azithromycin 1 g orally single dose OR · Erythromycin base 500 mg orally 4 times a day for 7 days · Doxycycline 100 mg orally 2 times a day for 7 days OR · Erythromycin ethylsuccinate 800 mg orally 4 times a day for 7 days *OR* • Ofloxacin³ 300 mg orally 2 times a day for 7 days OR • Levofloxacin³ 500 mg orally once a day for 7 days CHILDREN < 45 KG · Erythromycin base or ethylsuccinate 50 mg/kg/day orally divided into four doses daily for 14 days6 · Azithromycin 1 g orally single dose > 45 KG AND < 8 YEARS OF AGE Azithromycin 1 g orally single dose OR \geq 8 YEARS OF AGE • Doxycycline 100 mg orally 2 times a day for 7 days PREGNANCY • Azithromycin 1 g orally single dose <u>OR</u> • Erythromycin base 500 mg orally 4 times a day for 7 days OR · Amoxicillin 500 mg orally 3 times a day for 7 days Erythromycin 250 mg orally 4 times a day for 14 days OR • Erythromycin ethylsuccinate 800 mg orally 4 times a day for 7 days OR• Erythromycin ethylsuccinate 400 mg 4 times a day for 14

days

¹ Some patients who are allergic to penicillin may also be allergic to ceftriaxone, Doxycycline is the preferred treatment. Treatment failures with azithromycin have been reported (MMWR 2004;53:197-8). *T. pallidum* strains resistant

to azithromycin have been documented in various geographic areas in the USA (NEJM 2004;351:454-8.). If neither penicillin nor doxycycline can be administered, and azithromycin as a single dose oral dose of 2 g is considered, close follow-up is essential to ensure successful treatment

² Tretracycline doxycycline contraindicated; erythromycin not recommended because it does not reliably cure an infected fetus; data insufficient to recommend azithromycin or ceftriaxone.

³ Quinolones are contraindicated in pregnant women. No joint damage attributable to quinolone therapy has been observed in children treated with prolonged ciprofloxacin regimens. Thus children who weigh ≥ 45 kg can be treated with any regimen recommended for adults.

with any regimen recommended for adults.

4 Quinolones should not be used for infections in men who have sex with men or in those with a history of recent foreign travel or partners' travel, infections acquired in California or Hawaii, or infections acquired in other areas with

increased quinolone resistant Neisseria gonorrhoeae.

⁵ Unreliable to treat pharyngeal infections. Patients who have suspected or known pharyngeal infection should have a pharyngeal culture 3-5 days after treatment to verify eradication of infection.

⁶ The efficacy of treating neonatal chlamydial conjunctivitis and pneumonia is about 80%. A second course of therapy may be required. An association between oral erythromycin and infantile hypertrophic pyloric stenosis (IHPS)

been reported in infants aged less than 6 weeks treated with this drug. Data on other macrolides (azitrhomycin, clarithromycin) for the treatment of neonatal chlamydial infection are limited. The results of one study involving a limited number of patients suggest that a short course of azithromycin 20 mg/kg/day, 1 dose daily for 3 days may be effective for chlamydial conjunctivitis.

7 Hospitalize and evaluate for disseminated infection.

RECOMMENDED TREATMENT

Azithromycin⁸ 1 g orally single dose <u>OR</u>
 Doxycycline 100 mg orally 2 times a day x 7 days

ALTERNATIVES

• Erythromycin base⁹ 500 mg orally 4 times a day for 7 days • Erythromycin ethylsuccinate 800 mg orally 4 times a day for

NONGONOCOCCAL URETHRITIS

DISEASE

				Erythromycin ethylsuccinate ⁹ 800 mg orally 4 times a day for 7 days <u>OR</u> Ofloxacin ³ 300 mg orally 2 times a day for 7 days <u>OR</u> Levofloxacin ³ 500 mg orally once a day for 7 days		
EPIDIDYMITIS ¹⁰	Ceftriaxone 250 mg IM single dose <u>PLUS</u> Doxycycline 100 mg orally 2 times a day for 10 days			Ofloxacin ⁴ 300 mg orally twice daily for 10 days <u>OR</u> levofloxacin ⁴ 500 mg orally once a day for 10 days		
PELVIC INFLAMMATORY DISEASE ¹¹ (outpatient management) These regimens to be used with or without metronidazole 500 mg orally twice a day for 14 days	REGIMEN A Ofloxacin ^{3,4} 400 mg orally 2 times a day for 14 days <u>OR</u> Levofloxacin ^{3,4} 500 mg orally once a day for 14 days REGIMEN B Ceftriaxone 250 mg IM once <u>OR</u> Cefoxitin 2 g IM once plus probenicid 1 g orally once <u>OR</u> Other third generation cephalosporin <u>PLUS</u> Doxycycline 100 mg orally 2 times a day for 14 days				<u> </u>	·
PREGNANCY AND PID		s should be hospitalized and treat	ted with the appropriate i	recommende	ed parenteral IV treatments (se	e CDC guidelines)
CHANCROID	Azithromycin 1 g orally single dose					
HERPES SIMPLEX VIRUS (for non-pregnar		•	,	ent of her	pes in pregnancy and in th	e neonate
First clinical episode of genital herpes Daily Suppressive therapy	Acyclovir 400 mg orally 3 times a day for 7-10 days <u>OR</u> 200 mg orally 5 times a day for 7-10 days <u>OR</u> Famciclovir 250 mg orally 3 times a day for 7-10 days <u>OR</u> Valacyclovir 1 g orally 2 times a day for 7-10 days Acyclovir 400 mg orally 2 times a day <u>OR</u>					
		clovir 250 mg orally 2 times a day clovir 500 mg orally once a day 1 g orally once a day	<u>OR</u>			
Episodic Recurrent Infection	Acyclovir 800 mg orally 2 times a day for 5 days OR 400 mg orally 3 times a day for 5 days OR 200 mg orally 5 times a day for 5 days OR 125 mg orally 2 times a day for 5 days OR 1000 mg orally 2 times a day for 1 day Valacyclovir 500 mg orally 2 times a day for 3 days OR 1 g orally once a day for 5 days					
HIV INFECTION	Higher do	oses and/or longer therapy recomme		elines.		
PEDICULOSIS PUBIS ¹²	Permethrin 1% cream rinse applied to affected area and washed off after 10 minutes <u>OR</u> Pyrethrins with piperonyl butoxide applied to affected area and washed off after 10 minutes			Malathion 0.5% lotion applied for 8-12 hours and washed off <u>OR</u> Ivermectin 250 ug/kg repeated in 2 weeks		
SCABIES	Permethrin 5% cream applied to all areas of the body from the neck down and washed off after 8-14 hours <i>OR</i> Ivermectin 200ug/kg orally, repeated in 2 weeks			Lindane ¹³ 1% 1 oz of lotion or 30 g of cream applied thinly to all areas of the body and thoroughly washed off after 8 hours		
BACTERIAL VAGINOSIS (BV)	Metronidazole ¹⁴ 500 mg orally 2 times a day for 7 days <u>OR</u> Metronidazole gel 0.75% intravag, once a day for 5 days <u>OR</u> Clindamycin cream 2% intravag, at bedtime for 7 days			Clindamycin 300 mg orally 2 times a day for 7 days <i>OR</i> Clindamycin ovules 100 g intravag. at bedtime for 3 days		
PREGNANCY AND BV ¹⁴	Metronidazole ¹⁴ 500 mg orally 2 times a day for 7 days <u>OR</u> Metronidazole ¹⁴ 250 mg orally 3 times a day for 7 days <u>OR</u> Clindamycin 300 mg orally 2 times a day for 7 days					
TRICHOMONIASIS	Metronidazole 2 g orally single dose <u>OR</u> Tnidazole ¹⁵ 2 g orally single dose GENITAL WARTS			Metroni	idazole 500 mg orally 2 times a d	ay for 7 days
External		Urethral Meatus	<u>Vaginal</u>		Anal	Oral
PROVIDER-ADMINISTERED Cryotherapy with liquid nitrogen or cryoprobe. Repeat applications every 1-2 weeks if necessary OR Trichloroacetic acid (TCA) or bichloroacetic acid (BCA) 80% - 90%. Apply small amount only to warts. Allow to dry. If excess amount applied, powder with talc, baking soda or liquid soap. Repeat weekly if necessary OR Podophyllin resin 10%-25% 15 in a compound tincture of benzoin. Allow to air dry. Limit application to < 10 cm² and to ≤ 0.5 ml. Wash off 1-4 hours after application. Repeat weekly if necessary OR Surgical removal PATIENT-APPLIED Podofilox 0.5% solution or gel¹5. Apply 2 times a day for 3 days, followed by 4 days of no therapy. This cycle can be repeated as necessary for up to 4 times. Total wart area should not exceed 10 cm² and total volume applied daily not to exceed 0.5 ml. OR Imiquimod 5% cream¹5. Apply once daily at bedtime 3 times a week for up to 16 weeks. Wash treatment area with soap and water 6-10 hours after application. Infections with M. genitalium may respond better to azithromycin.		Cryotherapy with liquid nitrogen <i>OR</i> Podophyllin 10%-25% ¹⁵ in a compound tincture of benzoin. Treatment area must be dry before contact with normal mucosa. Repeat weekly if necessary.	Cryotherapy with liquid nitrogen. Cryoprobe not recommended (risk of perforation and fistula formation) OR TCA or BCA 80%-90%. Apply small amount only to warts. If excess amount applied, powder with talc, baking soda or liquid soap. Repeat weekly if necessary.		Cryotherapy with liquid nitrogen OR TCA or BCA 80%-90%. Apply small amount only to warts. If excess amount applied, powder with talc, baking soda or liquid soap. Repeat weekly if necessary. Many persons with anal warts may also have them in the rectal mucosa. Inspect rectal mucosa by digital examination or anoscopy. Warts on the rectal mucosa should be managed in consultation with a	Cryotherapy with liquid nitrogen OR Surgical removal

10 The recommended regimen of ceftriaxone and doxycycline is for epididymitis most likely caused by GC or CT infection. The alternative regimen of ofloxacin or levofloxacin is recommended if the epididymitis is most likely caused

- by enteric organisms, or for patients allergic to cephalosporins and/or tetracycline.

 11 Metronidazole will also treat bacterial vaginosis, which is frequently associated with PID. Whether the management of immunodeficient HIV-infected women with PID requires more aggressive intervention has not been determined.

 12 Lindane no longer recommended because of toxicity and is contraindicated in pregnancy. Ivermectin not recommended for pregnant and lactating women or for children who weigh < 15 kg. Pregnant or lactating women should be

- Lindane no longer recommended as first line therapy because of toxicity. Lindane not to be used immediately after a bath, in persons with extensive dermatitis and women who are pregnant or lactating, or children aged < 2 years.

 13 Lindane no longer recommended as first line therapy because of toxicity. Lindane not to be used immediately after a bath, in persons with extensive dermatitis and women who are pregnant or lactating, or children aged < 2 years.

 14 Multiple studies and meta-analysis have not demonstrated a consistent association between metronidazole use during pregnancy and teratogenic or mutagenic effects in newborns. Screening for, and oral treatment of, BV in pregnant women at high risk for premature delivery is recommended by some experts and should occur at the first prenatal visit. Intravaginal clindamycin treatment for low risk women should be used only during the first half of pregnancy.

 15 Safety during pregnancy **not** established.

Revised on August 2, 2007